

# United States Senate

WASHINGTON, DC 20510

## *Schumer Report: "Math For America" Will Bring Much-Needed Math and Science Training to Students and Help New York's High Tech Businesses Meet Their 21<sup>st</sup> Century Needs*

Today, U.S. Senator Charles E. Schumer revealed that New York State does not have the education infrastructure in mathematics and sciences to meet the needs of local high tech industries. Currently, there are over 40,000 unfilled jobs, and with high skill information technology jobs on the rise, New York must make changes to be able to compete. In response to this discrepancy between available jobs and trained workforce, Schumer announced the inclusion of his "Math for America" program as part of the America COMPETES Act, poised to pass in the Senate today.

The **Capital Region** is slated to see an **18.3 percent increase in high skill information technology employment** by the year 2012, growing four times faster than low or average skill IT jobs that demand less training. High skill jobs right now account for **60 percent** of the IT jobs in the Capital Region. At the same time, the Capital Region will see a **7.3 percent** decline in the number of low skill IT jobs and has already seen a **20.6% decrease in manufacturing jobs** since 2000.

County	Manufacturing Jobs (February 2000)	Manufacturing Jobs (February 2007)	Decline
Albany	28,200	22,700	5,500
Fulton	3,700	2,200	1,500
Montgomery	4,500	3,600	900
Rensselaer	5,157	4,152	1,005
Saratoga	7,138	5,746	1,392
Schenectady	4,952	3,987	965
Schoharie	1,072	863	209
Washington	3,676	3,137	539
<b>Capital Region Total</b>	<b>58,395</b>	<b>46,385</b>	<b>12,010</b>

**Central New York** is slated to see a **15.6 percent increase in high skill information technology employment** by the year 2012, growing four times faster than low or average skill IT jobs that demand less training. High skill jobs right now account for **55 percent** of the IT jobs in Central New York. At the same time, Central New York will see a **6.9 percent** decline in the number of low skill IT jobs and has already seen a **27.8 percent decrease in manufacturing jobs** since 2000.

County	Manufacturing Jobs (February 2000)	Manufacturing Jobs (February 2007)	Decline
Onondaga	31,204	22,841	8,363
Oswego	8,405	6,152	2,253
Cortland	3,200	2,200	1,000
Madison	4,792	3,507	1,284
Oneida	14,853	10,374	4,480
Central New York Total	<b>62,453</b>	<b>45,074</b>	<b>17,380</b>

The **Finger Lakes Region** is slated to see a **14.1 percent increase in high skill information technology employment** by the year 2012, growing four times faster than low or average skill IT jobs that demand less training. High skill jobs right now account for **58 percent** of the IT jobs in the Finger Lakes Region. At the same time, the Finger Lakes Region will see a **7.9 percent** decline in the number of low skill IT jobs and has already seen a **26.5 percent decrease in manufacturing jobs** since 2000.

County	Manufacturing Jobs (February 2000)	Manufacturing Jobs (February 2007)	Decline
Monroe	72,841	52,372	20,469
Cayuga	4,100	3,400	700
Livingston	6,377	4,585	1,792
Ontario	10,375	7,460	2,916
Schuyler	700	400	300
Seneca	2,200	1,900	300
Tompkins	4,200	3,800	400
Wayne	9,298	6,685	2,613
Yates	1,000	1,100	-100
Rochester -Finger Lakes Total	<b>111,091</b>	<b>81,702</b>	<b>29,389</b>



The **Hudson Valley** is slated to see a **19.5 percent increase in high skill information technology employment** by the year 2012, growing four times faster than low or average skill IT jobs that demand less training. High skill jobs right now account for **56 percent** of the IT jobs in the Hudson Valley. At the same time, the Hudson Valley will see a **6.9 percent** decline in the number of low skill IT jobs and has already seen a **18.6 percent decrease in manufacturing jobs** since 2000.

County	Manufacturing Jobs (February 2000)	Manufacturing Jobs (February 2007)	Decline
Westchester	26,301	22,000	4,301
Orange	17,200	12,453	4,747
Columbia	2,900	1,900	1,000
Dutchess	13,600	12,453	1,147
Greene	1,000	1,000	0
Putnam	2,810	2,350	460
Rockland	8,189	6,850	1,339
Sullivan	900	1,200	-300
Ulster	6,300	4,300	2,000
<b>Hudson Valley Total</b>	<b>79,200</b>	<b>64,506</b>	<b>14,694</b>

The **North Country** is slated to see a **16.4 percent increase in high skill information technology employment** by the year 2012, growing four times faster than low or average skill IT jobs that demand less training. High skill jobs right now account for **42 percent** of the IT jobs in the North Country. At the same time, the North Country will see a **2.4 percent** decline in the number of low skill IT jobs and has already seen a **22.2 percent decrease in manufacturing jobs** since 2000.

County	Manufacturing Jobs (February 2000)	Manufacturing Jobs (February 2007)	Decline
Clinton	5,300	4,700	600
St. Lawrence	5,200	3,700	1,500
Warren	3,824	3,137	686
Essex	1,100	1,100	0
Franklin	900	500	400
Hamilton	100	0	100
Herkimer	4,047	2,826	1,220
Jefferson	3,800	2,800	1,000
Lewis	1,500	1,300	200
<b>North Country Total</b>	<b>25,770</b>	<b>20,063</b>	<b>5,707</b>

The **Southern Tier** is slated to see a **13.7 percent increase in high skill information technology employment** by the year 2012, growing four times faster than low or average skill IT jobs that demand less training. High skill jobs right now account for **51 percent** of the IT jobs in the Southern Tier. At the same time, the Southern Tier will see a **9.4 percent decline** in the number of low skill IT jobs and has already seen a **17.2 percent decrease in manufacturing jobs** since 2000.

County	Manufacturing Jobs (February 2000)	Manufacturing Jobs (February 2007)	Decline
Broome	18,076	14,667	3,409
Allegany	2,700	2,600	100
Chemung	8,800	5,900	2,900
Chenango	4,100	3,300	800
Delaware	4,100	4,700	-600
Otsego	1,400	1,100	300
Steuben	7,900	6,800	1,100
Tioga	4,724	3,833	891
<b>Southern Tier Total</b>	<b>51,800</b>	<b>42,900</b>	<b>8,900</b>

**Western New York** is slated to see a **10.2 percent increase in high skill information technology employment** by the year 2012, growing four times faster than low or average skill IT jobs that demand less training. High skill jobs right now account for **52 percent** of the IT jobs in Western New York. At the same time, Western New York will see an **11.7 percent decline** in the number of low skill IT jobs and has already seen a **25.1 percent decrease in manufacturing jobs** since 2000.

County	Manufacturing Jobs (February 2000)	Manufacturing Jobs (February 2007)	Decline
Erie	67,712	49,223	18,489
Genesee	3,500	2,900	600
Niagara	15,788	11,477	4,311
Orleans	4,309	3,098	1,211
Wyoming	2,400	2,400	0
Cattaraugus	6,000	4,600	1,400
Chautauqua	13,600	11,200	2,400
<b>Western NY Total</b>	<b>113,309</b>	<b>84,898</b>	<b>28,411</b>